

## 1 ABSTRACT

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3 A medical imaging system comprises a patient support surface. An imaging apparatus has a  
4 support table located within the support surface, and adjustable relative to the support surface to  
5 be located above the surface and thereby engage a portion of the patient to be imaged. The  
6 imaging is performed by a rotary scanner rotatable about a vertical axis utilises multiple  
7 transducers that each image a different portion to produce conical slice. The signal processing  
8 compensates for attenuation and different gains in the transducers to provide a normalised set f  
9 data for reconstruction.

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